

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	("20040183782").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 17:38
S2	22	((("4897582") or ("5184310") or ("5194786") or ("5271290") or ("5555894") or ("5650704") or ("5712725") or ("5734236") or ("5828197") or ("5896076") or ("5952806") or ("6050718") or ("6057753") or ("6171191") or ("6211861") or ("6256011") or ("6353427") or ("6496200") or ("6686901") or ("7024625") or ("20020030663") or ("20040075676"))).PN.	US-PGPUB; USPAT	OR	OFF	2008/02/04 16:54
S3	1	("6452586").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/19 16:37
S4	1	("6088019").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/19 16:37
S5	8211	(345/156-158,161,163-167).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/19 16:48
S6	34	("3497668"   "3919691"   "4655673"   "4667182"   "4687444"   "4712101"   "4757302"   "4795296"   "4868549"   "5185561"   "5186629"   "5237311"   "5268674"   "5296871"   "5351677"   "5389849"   "5506605"   "5555894"   "5585823"   "5589828"   "5589854"   "5619180"   "5625576"   "5643087"   "5666473"   "5684722"   "5691898"   "5692956"   "5699083"   "5717427"   "5790108"   "5808568"   "5986643").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/19 16:49
S7	8	S2 and ((cover housing top button) near5 (vibrat\$4 oscillat\$3 haptic))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 16:55
S8	10	S2 and ((cover housing top button) with (vibrat\$4 oscillat\$3 haptic tactile))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 16:56
S9	499	S5 and ((cover housing top button) near10 (vibrat\$4 oscillat\$3 haptic tactile))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 16:57
S10	115	S5 and ((cover housing top button) near10 (vibrat\$4 oscillat\$3 haptic tactile)) and @pd<"20020101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 16:58
S11	84	S5 and ((button) near10 (vibrat\$4 oscillat\$3 haptic tactile)) and @pd<"20020101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:04

## EAST Search History

S12	858	S5 and ((measur\$3 detect\$3 sens\$3 determin\$3) with (vibrat\$4 haptic tactile))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:07
S13	46	S5 and ((measur\$3 detect\$3 sens\$3 determin\$3) with (vibrat\$4 haptic tactile)) and @pd<"19970623"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:09
S14	77	S5 and ((measur\$3) near10 (vibrat\$4 haptic tactile))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:16
S15	88	S5 and ((measur\$3) with (vibrat\$4 haptic tactile))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:17
S16	11	S15 not S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:17
S17	0	S1 and (actuat\$3 same sens\$3 same (measur\$3 measurement) same rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:28
S18	2	S1 and ((measur\$3 measurement sens\$3) same rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:25
S19	0	S1 and ((measur\$3 measurement) same rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:26
S20	8	((("6717573") or ("6243078") or ("6211861") or ("6353427") or ("6088019"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/19 17:27
S21	0	S20 and (actuat\$3 same sens\$3 same (measur\$3 measurement) same rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:28
S22	1	S20 and ((measur\$3 measurement) same rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 17:28
S23	8211	(345/156-158,161,163-167).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 15:46

## EAST Search History

S24	71	S23 and ((detach\$4 remov\$4 open\$3) with (cover\$3 top housing lid) with hinge)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 22:40
S25	540	345/163-166.ccls. and ((detach\$4 remov\$4 open\$3) with (cover\$3 top housing lid))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 22:41
S26	144	345/163-166.ccls. and ((detach\$4 remov\$4 open\$3) with (cover\$3 top housing lid)) and @pd<"20010101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 22:43
S27	71	345/163-166.ccls. and ((detach\$4 remov\$4) with (cover\$3 top housing lid)) and @pd<"20010101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/19 22:43
S28	2	("20040183782").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 15:27
S29	0	S28 and (measur\$5 near\$5 rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 15:30
S30	0	S28 and (measur\$5 with rotat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 15:30
S31	8668	(345/156-158,161,163-167).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 15:46
S32	76	S31 and (((rotat\$3 spin\$4) near\$5 (mass weight)) with (vibrat\$3 haptic feedback))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 15:48
S33	2	("6211861").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 15:52
S34	2	("6088019").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 15:54

# EAST Search History

S35	107	( "3875488"   "3919691"   "4436188"   "4477043"   "4604016"   "4782327"   "4794384"   "4795296"   "4800721"   "4839838"   "4861269"   "4868549"   "4896554"   "4906843"   "4935728"   "4949119"   "4961038"   "4983901"   "5044956"   "5065145"   "5076517"   "5095303"   "5103404"   "5107080"   "5107262"   "5116180"   "5139261"   "5146566"   "5184319"   "5185561"   "5186629"   "5189355"   "5193963"   "5197003"   "5203563"   "5220260"   "5223776"   "5235868"   "5264768"   "5275565"   "5286203"   "5296871"   "5313230"   "5354162"   "5355148"   "5381080"   "5396266"   "5398044"   "5405152"   "5414337"   "5451924"   "5457479"   "5459382"   "5471571"   "5473235"   "5473344"   "5491477"   "5512919"   "5513100"   "5530455"   "5565887"   "5576727"   "5583407"   "5589828"   "5589854"   "5596347"   "5625576"   "5642469"   "5643087"   "5656901"   "5666138"   "5666473"   "5691747"   "5691898"   "5694013"   "5709219"   "5714978"   "5721566"   "5724278"   "5734373"   "5736978"   "5745715"   "5754023"   "5755577"   "5757358"   "5760764"   "5767839"   "5771037"   "5781172"   "5790108"   "5802353"   "5805140"   "5805165"   "5808601"   "5808603"   "5823876"   "5825308"   "5831408"   "5844392"   "5877748"   "5880714"   "5889670"   "5912661"   "5944151"   "5956484"   "5959613"   "5990869" ) .PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/04 15:54
S36	8668	(345/156-158,161,163-167).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 16:55
S37	58	S36 and mouse and ((haptic vibrat\$4) with ((lid cover\$3 hous\$3) near10 (movable moveable mov\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 17:13
S38	31	S36 and mouse and ((haptic vibrat\$4) with ((lid cover\$3 hous\$3) near10 (movable moveable mov\$3))) and (rotat\$4 near10 (mass weight))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 17:35
S39	169007	(mouse input position coordinate).ab. and ((rotat\$4 rotar\$3) near5 (mass weight force output haptic actuat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 17:37
S40	1132	S36 and ((rotat\$4 rotar\$3 inertial) near5 (mass weight force output haptic actuat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 17:51
S41	8	(( "6717573" ) or ( "6243078" ) or ( "6211861" ) or ( "6353427" ) or ( "6088019" ) ) .PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 17:39

## EAST Search History

S42	4	S41 and ((detect\$3 measur\$3 sens\$3) near5 (rotat\$3 rotation\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 17:47
S43	5	S41 and ((hous\$3 cover\$3 lid) with (mov\$3 movable moveabl) with (((rotat\$3 rotatable rotary rotation\$3) near5 (force actuat\$4 output feedback)) haptic vibrat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 17:49
S44	2	("20040183782").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/04 17:49
S45	1	S44 and ((hous\$3 cover\$3 lid) with (mov\$3 movable moveabl) with (((rotat\$3 rotatable rotary rotation\$3) near5 (force actuat\$4 output feedback)) haptic vibrat\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 17:50
S46	253	S36 and ((rotat\$4 rotar\$3 inertial) near3 (mass weight force output haptic actuat\$3)) and ((cover\$3 hous\$3 lid) near5 (vibrat\$3 vibration\$3 haptic mov\$3 movable moveable))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 07:17
S47	1705	((rotat\$4 rotar\$3 inertial) near3 (mass weight force output haptic actuat\$3)) and ((cover\$3 hous\$3 lid) near5 (vibrat\$3 vibration\$3 haptic mov\$3 movable moveable))).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 17:55
S48	14	((rotat\$4 rotar\$3 inertial) near3 (mass weight force output haptic actuat\$3)) and ((cover\$3 hous\$3 lid) near5 (vibrat\$3 vibration\$3 haptic mov\$3 movable moveable)) and (mouse (cursor near control\$4) "input device")).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/04 18:03
S49	8676	(345/156-158,161,163-167).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/05 07:17
S50	253	S49 and ((rotat\$4 rotar\$3 inertial) near3 (mass weight force output haptic actuat\$3)) and ((cover\$3 hous\$3 lid) near5 (vibrat\$3 vibration\$3 haptic mov\$3 movable moveable))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 07:23
S51	154	S49 and ((rotat\$4 rotar\$3 inertial) near3 (mass weight force output haptic actuat\$3)) and ((cover\$3 hous\$3 lid) near5 (vibrat\$3 vibration\$3 haptic mov\$3 movable moveable)) and ((haptic force) near3 (output feedback))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 07:24

# EAST Search History

S52	68	("2972140"   "3157853"   "3220121"   "3497668"   "3517446"   "3623064"   "3902687"   "3903614"   "3911416"   "4127752"   "4160508"   "4236325"   "4262549"   "4333070"   "4464117"   "4484191"   "4513235"   "4581491"   "4599070"   "4708656"   "4713007"   "4794392"   "4885565"   "4891764"   "4930770"   "4934694"   "5019761"   "5022384"   "5022407"   "5035242"   "5038089"   "5078152"   "5165897"   "5175459"   "5186695"   "5212473"   "5240417"   "5271290"   "5275174"   "5283970"   "5299810"   "5309140"   "5334027"   "5436622"   "5437607"   "5466213"   "5547382"   "5575761"   "5650704"   "5690582"   "5766016"   "5785630"   "5973678"   "6020875"   "6088017"   "6111577"   "6147674"   "6160489"   "6171191"   "6275213"   "6422941"   "6424333"   "6468158") .PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 07:30
S53	107	("3875488"   "3919691"   "4436188"   "4477043"   "4604016"   "4782327"   "4794384"   "4795296"   "4800721"   "4839838"   "4861269"   "4868549"   "4896554"   "4906843"   "4935728"   "4949119"   "4961038"   "4983901"   "5044956"   "5065145"   "5076517"   "5095303"   "5103404"   "5107080"   "5107262"   "5116180"   "5139261"   "5146566"   "5184319"   "5185561"   "5186629"   "5189355"   "5193963"   "5197003"   "5203563"   "5220260"   "5223776"   "5235868"   "5264768"   "5275565"   "5286203"   "5296871"   "5313230"   "5354162"   "5355148"   "5381080"   "5396266"   "5398044"   "5405152"   "5414337"   "5451924"   "5457479"   "5459382"   "5471571"   "5473235"   "5473344"   "5491477"   "5512919"   "5513100"   "5530455"   "5565887"   "5576727"   "5583407"   "5589828"   "5589854"   "5596347"   "5625576"   "5642469"   "5643087"   "5656901"   "5666138"   "5666473"   "5691747"   "5691898"   "5694013"   "5709219"   "5714978"   "5721566"   "5724278"   "5734373"   "5736978"   "5745715"   "5754023"   "5755577"   "5757358"   "5760764"   "5767839"   "5771037"   "5781172"   "5790108"   "5802353"   "5805140"   "5805165"   "5808601"   "5808603"   "5823876"   "5825308"   "5831408"   "5844392"   "5877748"   "5880714"   "5889670"   "5912661"   "5944151"   "5956484"   "5959613"   "5990869") .PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/05 07:52
S54	74	(mouse (((cursor adj control\$4) input coordinate position) adj2 device)).ab. and ((haptic force) with (detect\$3 sens\$3 measur\$3) with (rotat\$4 rotation\$3 position\$3 displacement speed) with (mass weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 08:20
S55	40	S49 and ((haptic force) with (detect\$3 sens\$3 measur\$3) with (rotat\$4 rotation\$3 position\$3 displacement speed) with (mass weight))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 08:23

## EAST Search History

S56	76	S49 and ((haptic force vibration\$3 vibrat\$3) with (detect\$3 sens\$3 measur\$3) with (uniform\$5 constant consistan\$5 consisten\$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 08:29
S57	51	S49 and ((haptic force vibration\$3 vibrat\$3) near5 (detect\$3 sens\$3 measur\$3)) same ((haptic force vibration\$3 vibrat\$3) near5 (uniform\$5 constant consistan\$5 consisten\$5))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 08:37
S58	249	S49 and (((haptic vibration\$3 vibrat\$3) near10 (detect\$3 sens\$3 measur\$3)) same ((haptic force vibration\$3 vibrat\$3) near5 (control\$4 output\$3 chang\$3 updat\$3 alter\$3 increas\$3 decreas\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 08:56
S59	202	S49 and (((haptic vibration\$3 vibrat\$3) near5 (detect\$3 sens\$3 measur\$3)) same ((haptic force vibration\$3 vibrat\$3) near5 (control\$4 output\$3 chang\$3 updat\$3 alter\$3 increas\$3 decreas\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 09:59
S60	8	(sensor\$3 and actuator\$3 and rotat\$4 and mass and accelerat\$3 and ((measur\$3 determin\$3) near5 (amount position location rotat\$3)) and hous\$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/05 10:01